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 Liew, Choong-Chin

10 <120> Method for the Detection of Gene Transcripts in Blood and Uses
 Thereof

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20 <150> US
 <151> 2000-01-04

25 <150> US 60/115,125
 <151> 1999-01-06

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35 <170> PatentIn version 3.2

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25 gaaaaantt tccggggggc ccacccggga agggntnccg ggaaaggg 168

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cccacatttc cattttaat atatactgtg cttacaat attataatat gtttaaat 180

40 atgtcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaa ataagcattc 240

tttgaatata tatttagttt ttatatgtgg tagaaaaatc aaagccagag ggagtagaaa 300

caaaatttgt gatttctaa atacttcttg gctgcaggg aaaaaaccacg tcccaggcga 360

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15 aaaggggaa gcccccaaa accggggggg gggnaaaaag gtgggttcc ccctttcc 180
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45 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gncccccccg ggaaaggccc 180

aaggggggaa aattttccg ggggtgggtt gggggAACCA atttaagggg ggggcccccg 240

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15

ctgtacttga actctaaaac tggggagaa actcagtgt taccccaaca gattcatttc 180

aaatagctgt aaaaggtatg ttactccag aagaccagag ttgcttctt tgaacttctc 240

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attccttggg ccttaggaacc ctcatcaccc tcatccaaac gtcaacccag atcttcttt 300

ccataaacag cactccctca ggccctgccc tgacacagggc atagactgtc atgtggatt 360

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tttaggcggc accccaacaa caccaggccc tacttttcc aaggncggg aagcccatgg 180

45 gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

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242

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tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt 120
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 aaggggggtg ggaaagagcc aaatttcttt gggaaanaac gcccccttgg gaaaaanaag 180
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ggattaatta gacagcaaga cgcttgcggc cccttggcg cgaacgaacn ncgaaaagga 420
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cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300
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agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420
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15 ctcagactgc aaantgnat nctgnccnan nntgnngact gtccngncng atttnnngcn 120
tgnaatacta ttgccttta tatacacnac caannntgcg aagggcannn nnacccttnc 180
20 cantnnnctg gggncacn nnngngaact gagagtggat cttgtgtacc tgacnnacca 240
gntnnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtgcaaaga 300
ccngnctatc tcactganga tgattgnag ngccnntggg tggcacnang ggnactgatg 360

25 ancancactg accctgccga cgccagangc cgcancatccg gagantncat gngacnata 420
aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa 480
30 ntctntcnct ataggcatga ttttnncag tgcgtcagcc ttganaanga ancnnactt 540
tgntagatga nnngntgctc ncccttnggg ctnacaaatt ccancaccnt tggggcngc 600
agccnttaag ancactntt ttgggttgcg ctnntggat aattacnaat agnntgttt 660

35 gtttcaaggc cttctgcna aatatgaana aaagngcnct tagcttttg ngggactgn 720
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caagtacgcn agcnctgaan ctaaagcaag caagaaaaag 100

10 <210> 54

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<212> DNA

<213> Human

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20 tagatatggg aagattatag gaggcgacaa ctaccgagcc tggtgatagc tggtgtccaa 180

gaagagtctt agttcattta ttggcccaag aaccctctaa tcccttgta atttatgtca 240

agaggaacag ctcttggac actggaaaac cgtgagagag taagattac acccttaggg 300

25 gcctaatacg agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa 360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

30 ataagtaacc tgaaaacatt ctcccttgca taagccctgc gttggattat atccctgcact 480

gacaattaac tgccccaata tctacaatcc aaccc 515

35 <210> 55

<211> 176

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40 agcctgccct cattagacca agacagcaag gttncctg gtcactagat gaaatt 176

45 <210> 56
<211> 317
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 ggatTTgggg tttagaggta caattgcctt ttatggtaa gagaaaggc ctggggctgg 180

15 agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240
 gettaaagggg ctgtgtcagt tctattgtaa acaccaactt aaagtggtgg atgctggcag 300
 acattgttat tgccatt 317

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25 <210> 57
 <211> 209
 <212> DNA
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30 <400> 57
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 aggagaattt cgtcatttaa agcctgttga cgctttctc ccgcagacga atggaaagat 180
 taattgggag tggggctga aacaattcg 209

35

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caaattcacccg gcatggagat tgccctgtg gtcccaaaat actcgggctg ggacacgatg 180
agttgcttgg cccaaggaag gagggttcta tggctgatca cactggtccg cctgggtgac 240
5 agagcgagac tccatctcta at 262

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<211> 430
10 <212> DNA
<213> Human

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15 aaacctttat tgccttacag ggggaaacta gcgcgggct gaataaaacc ttggccctt 120
cccgaaaaag ggttatccgg ttataaaacc ccaagggtat ttcttagca aaatactaa 180
20 aacggccgg ggttttata caaactggga acccactttt gaaaaattttt ggcctttga 240
tctggatgg gaatatgagt ttatatacat ttcatttct ttggccaa aggcccggtt 300
aagtattccc ccccgaaaaa ctttacaaa aaggcggtt taaaagctt ttggccccc 360
25 ctagggaaattttaacac ctaaaaaccc ctgtttccct taaagggcg ttttttaattt 420
tggggccggc 430

30 <210> 60
<211> 350
<212> DNA
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35 <400> 60
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40 tttatgtgt aagcccatct cttggggaggctt ctaacatact accatctcca aggagaggca 180
tgattccgaa tcacccacag acagctcgat caccatacgt atcacccaaat atatatacc 240
45 tctaagactt gcttagaaaca accaccatct ttgatgctt atcaccactc tgacgcgcatt 300

taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga 350

<210> 61

5 <211> 515

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<213> Human

<400> 61

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aataatcagg caaatccta agaataaggg caattaagga tgactagccc tacaagatt 180

15 taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaaa taaaatctg 240

aagtagatcc aaatatacat ggtcagattt aatacaataa agatggcatc gtagcagtgg 300

20 agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa 360

atgaagttga ataataaaaa tatattctac actagcacaa attataaata aagcagtgtat 420

ttaaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata 480

25 gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62

30 <211> 611

<212> DNA

<213> Human

<400> 62

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aataatccac cagatacaag ttgcataa cttctgtgaa atatttttt tccttttgt 180

40 tggcatttt tatggtctaa atatagaatg accaatgcct ctggacacaa ctgacctgg 240

tcagtgttat caagaagcag actgtttctt actttcttg tatttccta cttatttaaa 300

45 ttgttaaaa ttgatataatt gatataaaa acttccttg ccagtgtgg tggcacacgc 360

ctttaatccc agcacttagg aggcagaggc agggtggatt tctgaatttgc agggcaggct 420
agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa 480
5 ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac 540
caaaccagac taaaccaaac caaaccagac cagaccagac cagaccagac cagaccagac 600
cagaccaaac t 611
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<210> 63
<211> 291
<212> DNA
15 <213> Human

<400> 63
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20 taatgcgaat atacttcctc ttctttgc atggcttgc ccagcctctg caatactgat 120
gaacacatgc tgaagatcat ctaactcaat atggcgata ttctatgtc ttgctgccc 180
ggacatagga caacttcgtc gctcactagt tctaacaat taatgctggc gtaggtggag 240
25 aactactgca catabactct tactcgagg ctgaggcacg aggatcactt g 291

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30 <211> 309
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<400> 64
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40 aggcacattg ttccctatg ccccgctacg ctttgccta gagctggcg gtatctatat 240
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45 ctgattaga 309

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5 <213> Human

<400> 65
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agggatggaa tggactcgaa ggaaatggaa tggaatggat tcgaatggaa aggaatggaa 180
tggactcaaa aggaatggaa tggaatggac tcaaattggaa tggactcgaa ttgaatgaaa 240
15 tgtaatggaa tagactcgaa tggaatggaa cgaaattt 278

<210> 66
20 <211> 142
<212> DNA
<213> Human

<400> 66
25 agttctcctt aggttaatta atggaatgca atcccaatga aaatgtcacc aaagttgtt 60
tttttaac tgttaggaggt ttataataat gctcatatgg aaaaataaaa catgaaaaaa 120
30 atagcttagta aactccccct gt 142

<210> 67
<211> 286
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35 <213> Human

<400> 67
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40 aaagatgttc tcctcatgtt tccatgtttt gcgagttttt gacatactgtt gcatatgtt 120
attattttcc caacaaatttgc ttcttcatgtt atagaataatgtt ctgactaaga ctacttagcc 180
ccacatttttt ttcttcatgtt tccatgtt ctaacaaataatgtt ggaagctttt gcttgcctt 240
45 ccaagcttcca ttcccttgc ttccatgtt ctaacaaataatgtt ggaagctttt gcttgcctt 286

5 <210> 68
 <211> 179
 <212> DNA
 <213> Human

10 <400> 68
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 tagaagtcat tattttatataaaacatgtt ggatttagata ttttcatttttgtgattaaa 120
 ctttctaaac aaagattata tgaattatct taaagatttaaaaat aagttaat 179

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 cttcagtctt agaacgtaaa tccatggaaag aattttaaagc aggggtgtgc cttgaccaca 120
 ttttgaatttca taaactgtctt ctgggtgggtt gtgggtgcca ccaagagcat gtgttcatgtt 180
 agggagactg gtttttaca gttgtctatg agagagatga cagttgcctg gattatggtg 240

35 gtgacattgg agataagcag gtagacagat ttcagttgtttaa ttaggagaga aaaatcaata 300
 ggaaatttaa aataaataat taactgtggc cataggagga aggagtctt gggttnggtt 360

40 ctcaatttctt gcatgagaaa aaagggtggac 390

45 <210> 70
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 <212> DNA
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	<223> n is a, c, g, or t					
	<400> 70					
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	gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga taaaatgaga	120				
	taaaatgata gatgagataa aatgatgata taaaatgatg agatgaatga tgagatgtg	180				
15	agatgaatga taaaatgaaa tcatgagatg agatgtgaa atgaaatggt gagatgaaat	240				
	gatgagatga aatgaaatag taaaatgaaa ttgaaataaa atcgaaatga gagatgaaat	300				
	gatgagatga taaaattgat gaaatgtga gatgtgtatgatgaaatga tgagatgaga	360				
20	tgagatgaca taaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca	420				
	atgagatgaa atgatgagat gaaatgaaat agtggaaatga aattgaaata aatcgaaat	480				
25	g	481				

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10 <223> n is a, c, g, or t

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15 ngacgcgccg tacaggntna attatggnan cttacatggn aaaggggcan ctcaatgtcc 120
cacag 125

20 <210> 72
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atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tcatgagatg
35 aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aatgatata aaaaatatga 180
cctgagatga aatgagatga aaaaatgatac gaaaaatgat ataaaaaata tgacatgaaa 240
40 tgaaatgaga tcatgatgaaa tgcataatg aatgatgaa ttgatgatat tgaaatgaaa 300
ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga 360
catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420
45 tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

5 <210> 73
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 <212> DNA
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 <223> n is a, c, g, or t

20 <220>
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 <223> n is a, c, g, or t

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aaatgaaatt agatgaaatg taatgagatg aatgaaatg acctaattgaa atgaaataat 120

gaaatgagat gaaataaaat aatgaaatgaa tgaardataatg aatgaaaat gagatggaa 180

30 tcatgagatg agaagaaatg atgagatgaa atgaaataat gatgagatgaa gaaataatgaa 240

gatgaaatgaa tgagatgaga tgaardatgaa tgaggtaaa tgacataatg aatgaaatgaa 300

35 tgaardatgaa taatgaaatg gaaatgatgaa gctgagatgc aatgagttgaa aatgagatgaa 360

aatgatgaaa tcatgagatg aatgatgaa atgaaataat gaaatgagat gaaataaaat 420

aatgaaatgaa tgaardataatg aatgaaaat gaaatggaaa tcatgagatg agaagaaatg 480

40 atgagatgaa atgatgaaatg 500

45 <210> 74
 45 <211> 299
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ctacttnaga ngaantcctc gcaaaatcct tgaatcaccg cttagtgca gtgatatcac 120

cggcatggaa ttctgctcg attagctac gttgtttgga tagaggccaa acaaggctgt 180

45

tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300
aaatatgagg ggtggcaagg tttgcctgt tacattctca aatggaagca aatttagatat 360
5 gtcattg 367

10 <210> 77
<211> 257
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<223> n is a, c, g, or t

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<222> (11)..(11)
<223> n is a, c, g, or t

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atagaaatca ttatttctgt gggatggata attggccaa attgtaaaat attttaacta 120
30 tcagtgttg gggtttattt taaaagaat aggggccac cagatgtct ttagtggagg 180
agaaatgagg ccagagtgac tgcctagaaa attaagttgg taaattaatc actttttct 240
aggcctttc ttagtct 257
35 <210> 78
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40 <213> Human

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 ataatggatt ttattgttaa attgtgtgtg tgggtgtgt atgccctgtc ttttcctc 300
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gaaatgaagt gaaatgaaaat tgaaatgaga tgagatgaaa tgagataaaa tcatgagatg 180

15 aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatggat 240

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20 tgaattgata atattgaaatg gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

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aaagaaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg 360

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gcggaggagt cgatccgtct actcctatcc cgtcggtcg gatttactac aggagctaa 480

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tataaactta atgtccctt tattctcccg gacgccccctt ttaaccactt cttcctatct 480
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aaaaaaaaaagg taaaancccc ccctttttt ttgggttggg gtggaaaaat ttgggaanc 240

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ntnnnanctnc ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180

30 ttttctctta tntgnngncn naacatctgc nngctctgnt annaanaatt ncataccgcn 240

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aaaaatAGAT aatggtaatc caagcacgat ggtagccatc actctaattg ctttggggtt 180
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